

I. W. LITCHFIELD '85 GETS NEW APPOINTMENT

Is Made Director of the Public Service Reserve—Organization Materially Aiding War Work With Data on Engineers

EX-EDITOR OF REVIEW

Press dispatches announce the appointment of I. W. Litchfield '85, to the position of director of the Public Service Reserve. The Reserve in its origin is closely related to Technology matters, for the "Who's Who" of Technology brains was the foundation stone on which it was built. Some months before war was declared the evidences of its coming were so definite that the Alumni Association of Technology deemed it a service to the government to make an inventory of engineers so that in case of need they could be placed at once in the service of the country. A questionnaire was addressed to every former student whose address was known and in short order there was in the alumni office in the administration building of the Institute a list of about six thousand names, each card telling what the man had achieved, what his line of work is and what he felt he could be able to do for his country in the way of expert engineering work.

This questionnaire was used for a while in Boston and requests of the different bureaus in Washington were filled from it, but it was deemed necessary to get it into closer touch with the government offices and it was taken to Washington. At first it was used in the Washington office of the Institute, but the field proved so great that very shortly there was established another office, the Public Service, in which the questionnaire was housed and supplemented by similar lists from other sources. The Public Service Reserve was organized and financed by private individuals, but was almost immediately affiliated—still privately financed—with the Department of Labor. In its development Mr. Litchfield was the strongest single force, he was of the council of the reserve in its original form and under his management there was organized an office of some thirty assistants in an old mansion on Eye street.

It is this office that has now been taken over by the government as a part of the Department of Labor, and Mr. Litchfield is named one of the directors.

Mr. Litchfield has been a familiar figure in Boston the past dozen years. He was born in Orange county, N. Y., and has been identified with important commercial organizations in the east and west. Ten or twelve years ago he was invited by Technology to become interested in the Alumni Association and it is quite largely through his efforts that the former students of Technology have been organized into such a consistent and harmonious body. He was appointed editor of the Technology Review, the alumni publication, and was able to make of it a pattern within its special field. He was editor also of Science Conspectus, a magazine published by the Institute as an outlet for part of its scientific work. Three years ago Mr. Litchfield was named field manager of the alumni associations and devoted much of his time to visiting the different associations in the country, of which there are about fifty, carrying to them the news of the Institute. It was a patriotic duty which impelled Mr. Litchfield, as it has others of the Institute alumni, like James P. Munroe '82 and Hollis Godfrey '98, and a host of others, more than 3700, who have laid aside for a while their regular occupations to devote their skill and talents to the service of their country.

THERE WILL BE A MEETING OF ALL NEWS MEN ON THE TECH HELD NEXT MONDAY AFTERNOON AT 1.05 O'CLOCK IN THE TECH OFFICE.

INSTITUTE TO HAVE BOXING TEAM NEXT TERM

Plans For New Organization Being Made Ready by Instructor

Plans are being made for the organization of a boxing team to represent the Institute in that sport in bouts with other college teams. Definite work will be taken up with the beginning of the second term and a schedule will be arranged with as many other colleges as possible.

Mr. Boutillier, the boxing instructor, has under his instruction many men who show ability and interest in boxing and thinks that a team will find support enough among the men of the Institute. Boxing is not an innovation at Technology and there are men in the several classes who hold amateur titles in the sport. Many men who have substituted boxing for physical training and were new to the sport at the beginning of the year, are fast gaining the rudiments of the science and some show remarkable progress.

It is hoped that bouts may be arranged with the Aviation School and Aviation Branch of the Signal Corps.

GOVERNMENT CONTROL

Contrast of American and English Maintenance of Railways

The following is an outline divulging the contrast between Government control and operation of railways as practised by both the American and British Governments at the present time. The statement was issued by the Treasury Department and shows some of the drastic measures which the English have been forced to employ. Government control and operation of railroads in this country is still in its infancy and is parallel to that of the British system which was first employed in the fall of 1914.

American

By virtue of a proclamation of the President under an act of Congress passed in August, 1917, Secretary McAdoo as Director General of the Railroads took possession and assumed control of the railways of the country at midnight, December 31. It is proposed that the Government pay the stockholders dividends based on the average net operative income for the last three years.

The Director General's first act was to direct that all officers and employees of the transportation system taken over continue their duties as usual, and that the railways should be operated as a national system of transportation, the national needs being held in all instances paramount to supposed corporate advantages. All the railway property and facilities are to be fully utilized without regard to ownership, and the designation of routes by shippers and traffic agreements between carriers are to be disregarded when interfering with the expedition of traffic; through routes are established. Existing rate schedules and outstanding orders of the Interstate Commerce Commission are to be observed until annulled.

The Director General called upon all railroad officials to take up vigorously and immediately the matter of the common use of terminals and parallel lines, wiping out all competitive prohibitions and waiving competitive control or solicitation of traffic. The terminal facilities in the large cities are to be treated as a unit when necessary. An

(Continued on page 3.)

E. McK. HAGER '93 PASSES AWAY

Edward McKim Hager '93, whose death has been announced, was at the time of his death interested in the American International Corporation of New York and formerly president of the Portland Cement Company. At the time of the construction of the new Technology buildings Mr. Hager demonstrated his loyalty to his Alma Mater by a generous gift of cement for use in the construction work. After severing his connection with the cement concern Mr. Hager became president of the Wright-Martin Aircraft Corporation which position he resigned about a year ago.

ELECTRICAL MIDYEAR TRIP IS CANCELLED

Adverse Railroad and War Conditions Make Cancellation Necessary—Society Plans Second Term Work

ELECTION OF OFFICERS SOON

The officers of the Electrical Society have decided to cancel the proposed mid-year trip of that organization for several reasons. The railroad conditions are so bad at present that it was not possible to arrange for sleeping cars on the trip. The chief reason was the fact that no arrangements could be made with New York electrical plants to inspect the working methods of those concerns, on account of the new Alien Act passed by Congress, which bars all visitors from waterfront manufacturing plants.

A program of events has been arranged for the first few weeks of the second term which includes a banquet and several meetings. The banquet was to have been held during the first term, but its occurrence was prevented by the meeting of the A. I. E. E. which was held immediately after the Christmas recess. Arrangements have now been made by the officers of the society to hold this event during the later part of February or the first part of March. Among the meetings which are to be held, there will be addresses by prominent men in the electrical world on electric railways, motor power stations and electric transmission lines.

During the second of February, Professor Franklin of the Electrical Department will address the society on "Mechanical Analogs of Electrical Circuits." In this lecture the speaker will show several devices by which the phenomena of the circuits employed in power and transmission are easily made clear. Professor Franklin has designed these analogs for the use of the students as part of work at the Institute, and this meeting is perhaps the one which most directly affects the undergraduates.

February 26, the Electrical Society will hold a smoker, at which President Brush of the Boston Elevated Railway Company will give a talk on the opportunities of the Technology graduate in street railway operation. Among the topics which he will discuss are the problems of speedy and efficient transportation, a question of great import in the present war conditions.

The senior departure at the end of the first term has greatly affected the society, for several of the officers have left the Institute to enter some branch of the Government war service. As a result of this, the society has decided to hold an election of officers for the rest of this term and the whole of next year. These elections have usually been held in March, but it has been deemed necessary to hold them during February instead. The society as a whole elects an election committee, whose duty it is to arrange the nominations, receive the papers and make out the ballots. This committee is usually made up of four juniors and one senior. By means of this early election it will be possible for the newly elected officers to become acquainted with the duties connected with the society.

During the third week of the second term a trip will be made to the turbine department of the General Electric Company at Lynn, Mass. Arrangements are also being prepared to visit Boston theatres, such as the Boston Opera House to investigate the apparatus and operation of those concerns.

COUNCIL MEETING POSTPONED

Owing to the impaired facility of railroad transportation at the present time the regular monthly meeting of the Alumni Council will be held on Tuesday instead of Monday. These meetings are held in the Walker Memorial and at that time the regular business of the Alumni Association is brought up and discussed.

THREE MEETS SCHEDULED FOR INSTITUTE TRACK TEAMS

Varsity to Race Harvard and Dartmouth While Freshmen Face Holy Cross

Since the close of the Christmas holidays the track team has been preparing for the various meets which are to take place shortly. The varsity will run against the Harvard and Dartmouth teams, while the freshmen are to meet Holy Cross. The team which is to race Dartmouth is a "long" one, that is, each man runs 780 yards, while in the other contest the individual man will cover but half that distance.

In the preliminary trials, which were held last Saturday, H. P. Junod, L. W. Conant and M. E. Pridmore showed up well among the freshmen, and P. Scott '21 and T. W. Bossert '20 among the varsity recruits. Trials are to be repeated tomorrow owing to the absence of many of the men from the one held previously.

With the return of MacMahon '20 last year's two-mile team is left intact. This is the same team that opposed Cornell in the Indoor Intercollegiate in Philadelphia and its personnel consists of F. T. Halfacre '18, H. A. Herzog '19, G. C. McCarten '19, and W. K. MacMahon '20.

Among the candidates for the Dartmouth meet are, besides those on the regular two-mile team, W. F. Atwood, O. L. Bardes, G. Bawden, and C. L. Stone, all of 1921. In addition to the above men Scott and Bossert are preparing for the Harvard contest.

SMOKE SAVING DEVICE

Lehigh Professor Explains "Cottrell Process"

In a recent address at Lehigh University, Professor H. M. Fry of that institution told of the efficiency of modern boiler plants in relation to the gases which escape up the chimney. These gases have for centuries been wasted in this country, but the need for ammonia and other things continued in the escaping smoke of the modern power plant, has caused the chemists of the country to devise methods by which these valuable gases may be saved. Many of these have consisted in washing the smoke and thus adsorbing the gases in the water from which they are afterward collected, but perhaps the most efficient manner in present day use is the one known as the "Cottrell Process."

This process consists of the passage of an electrical current through the smoke, and thus depositing the gases on the sides of the containing tank or flue. The process was discovered partially by an accident, for a tall smoke stack in the western part of the country, which was frequently struck by lightning, was torn down and inside the stack was found a heavy deposit of ammonia and other valuable materials. After many tests and trials it was found that this deposit was caused by the passage of the lightning discharge through the smoke in the chimney, causing the smoke to decompose into its various gases, in the form of solid matter.

After several unsuccessful tests were carried out, a method was finally found by which a spark was passed through a chamber, which formed a part of the flue system, and the gases were deposited on the sides of the chamber and later removed. This "Cottrell Process" has been used to a large extent in the western part of the country and is said to be saving much of material ordinarily wasted in the flue.

TECHNOLOGY MAN PROMOTED

J. Russell Putnam '01, was recently promoted to the head of the Mechanical Department of the Waterman Clock Company located at Waterbury, Conn. Since graduating from the Institute he has been connected with the engineering staff of the same plant, but owing to sudden changes in the heads of the various departments of the Waterbury Clock Company, Mr. Putnam was awarded this new and more responsible position.

RADIO COMMUNICATION COURSE AT INSTITUTE

To be Carried Out in Conjunction With Harvard Seniors in Certain Courses Eligible and Will Receive Commissions

MEN TO BE IN SERVICE

A course in Radio Communication is to go in effect at the Institute at the request of Major Squires, Chief of the Signal Service of the United States army. Professor Kennelly will be at the head of the new course, which will be run jointly with Harvard University. The course will deal chiefly with wireless work and all branches of radio communication now in use in the Service.

Seniors who have taken the work of Courses II, VI, XIV or XV, 2 and those who have taken equivalent subjects are eligible to the course. The Institute is to accept the work of the Radio course in lieu of graduation. The standing of the men in the course will be greatly similar to that of the men taking the intensive course in Naval Architecture except that those in the Radio Course will be considered as enlisted in Signal Service of the United States Army. The work will extend over a period of fifteen weeks and upon completion those who have been successful will receive commissions as lieutenants in the Signal Service.

The work of the new course will be in charge of Professor Kennelly of the Institute, and Professor Chaffee of Harvard University and numerous instructors to be appointed, and will be considered government work.

AMERICAN CHEMISTS ADOPT MEASURES AGAINST GERMANS

Meeting at Chemist's Club to Prevent German Control of Dyes

To prevent German interests in America from ever regaining control of the dyestuffs industry was the object of a meeting of American dyestuff manufacturers and dealers at the Chemists' Club in New York City last Tuesday. Before the outbreak of the war Germany practically controlled the manufacture and market of dyes in the United States.

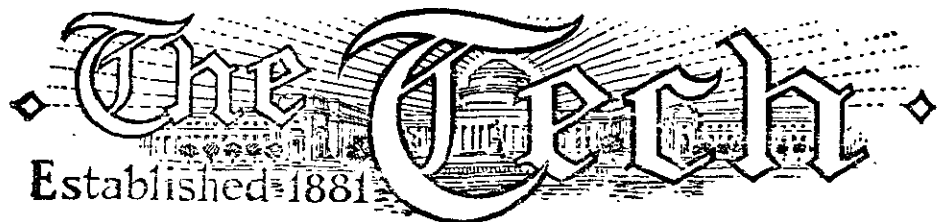
The assembly adopted a resolution that all trade organizations formed should be rigidly restricted to American citizens who are operating plants in this country, and financed entirely with American capital. Such action was considered necessary to prevent foreign interests regaining a foothold after the war.

The chairman in outlining the need of such an organization as this, said—"I hope this convention will give some unmistakable expression of opinion relative to the use of bribery to effect sales of colors and to secure monopoly of control. Bribery has been distinctly a German practice and has prostituted the dye industry not only in this country but in all other industrial centers. It has been one of the insidious and pernicious methods by which the world wide German domination of the industry has been built up. It has been a festering sore the more dangerous in that it has been necessarily secret and unseen, and this calls for a ruthless and drastic application of the knife."

At the close of the meeting a committee was named to prepare plans of organization and methods of procedure for the new national association to adopt.

PROFESSOR LOCKE TO LECTURE

Professor Charles E. Locke of the Mining at the Missouri School of who graduated from the Institute in '96, is giving a three weeks' course consisting of forty-five lectures on Mining at the Missouri School of Mines located at Rolla, Missouri. Professor Locke will return to the Institute for the beginning of the second term.



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IN CHARGE THIS ISSUE

G. Russell Steininger '21.....Assistant Night Editor

FRIDAY, JANUARY 25, 1918.

THE ADVENT OF THE NEW TERM

THIS week the examinations will end and then there will be a short respite of one week before the beginning of the hard work of next term. The examinations this year have not for some reason inspired the traditional fear in the men. Probably it was because we worked diligently and were thoroughly prepared, but more likely it was because we were more or less indifferent. Merely because there is a war is no reason why we should waste our time in school. We can remain in school and still do our duty if we work. If, however, we are here merely killing time we are failing miserably in our duty to the country. We were advised and allowed to remain at our studies so that later we could put our technical training to use in serving the government. There will be lots of opportunities for every one of us to get into the game later, but not one of us who does not work as hard as he can can stay here conscientiously.

KNITTING

IT is seldom that we stray so far from our field as to comment on such occupations as knitting, but the activities of some of the female portion of the audience which recently heard Miss Helen Fraser speak in Smith Hall has brought this forth. Knitting is a commendable occupation at this time if it is done for the benefit of the men in the service and also if it is done at the proper time. When, however, one sees giddy young girls and staid old ladies knitting at a lecture with yarn of colors which no self-respecting man would wear it is time to say something. Aside from the selfishness of these knitters, the discourtesy to the speaker and the annoyance to others is enough to make the most conservative indignant. Knitting is all very well, but knitting at a lecture with pink and light blue yarn is inexcusable.

At this time when fuel conservation is in order there is no excuse for over-heated classrooms. The Institute classrooms are fitted with automatic heat control appliances, but either they are not in working order or they are set for too high a temperature. There is hardly a room in which it is not necessary to open the windows, even when the ventilating apparatus is working, in order to make the room comfortable. Let us have no more of this over-heating and do even this apparently small bit in conservation.

Next term the Institute will start two courses which open lanes for the Technology man to enter the national service when it will give an intensive course in Naval Architecture and a course in Radio Engineering. Make the most of your opportunities and get in on the ground floor.

Recent tests on the ice cream served in The Caf and in the Walker Memorial have shown that it is below the required food standard. Probably this is due to the food conservation, but a better procedure would be to discontinue making the stuff. There is one consolation, it is guaranteed not to melt.

Tech Show developments should come with the next term. We are all awaiting them and hope that the Show will materialize. Remember, the proceeds are to go to the American University Union.

The exams are over, but owing to the conservation program and other causes, our guess is that the celebrations will be few.

The cars of the Boston Elevated must have a peculiar affection for one another, they stick together so much.



The Question Box has been inaugurated for SERVICE. So many questions have arisen, and so many doubts have been expressed among both the student body and the Alumni about the relations of Technology and Technologists to the war, that the WAR TIME TECH has deemed it advisable to establish a medium for clearing up these difficulties. It is strongly desired that neither the Alumni nor the undergraduates will hesitate to send in any questions that concern them directly or any that they think will be of benefit to Technology in common.

Address all inquiries to The Question Box Editor, The Tech. The name of the questioner will be withheld from publication, but each letter must be signed.

The Question Box is for YOU personally. Be sure you use it!

Editor of the Question Box,
The TECH.

Dear Sir:

Some days ago you stated in your answer to a question that enlisted men were not allowed to wear fraternity pins, etc. Does this apply to men in the Technology regiments?

Sincerely,

H. M. S.

Technology men taking the military courses are allowed to wear fraternity or National Organization Pins on the flap of the left upper pocket half way between the button and the seam. The order as stated in The Tech applies only to enlisted men in the National Army.

URGES CO-OPERATION WITH FRENCH UNIVERSITIES

Editor of Columbia Spectator,

Sir:—Since the beginning of the war French Universities have been almost deserted. Last year their complexion was commencing to assume a different aspect because of the few men who have seen service at the front, been wounded and honorably discharged, and who have returned to work in another way for their country's prestige and advance. These men have come back with burning visions. They stood face to face with the grim and ultimate realities of life, and come home with a stouter faith in the future, a broader view, a more sympathetic heart, a redoubled energy. A league of nations is their grandest vision. Students must appreciate the high part they are to play in the erection and the maintenance of that league. Peace, good will, must be based upon understanding, and understanding must be founded upon intercourse.

It is the especial ambition of these men to come into closer contact, and to work in more intimate collaboration with their American friends. Many articles calling for such contact and such co-operation have recently appeared. We ought to respond to these appeals. The "International Federation of Students of Allied and Friendly Countries" has been launched in Paris, and our French friends ask us to help cement the bonds between their country and our own.

Centers should be established in each American college and university, and correspondents appointed in each institution to communicate with representatives in the colleges and universities of France, thus creating warm, personal links between the two nations.

Jean Finelle is one of those who have returned from the front and dedicated themselves to the work of friendship between France and America. Soon after his arrival in Paris he founded "Le Journal des Etudiants et des Etudiantes," for both men and women students. It is the organ of "L'Association Internationale des Etudiants et des Etudiantes des Nations Allies et Amies." In addition to editing this "Journal," he conducts the column of university news at home and abroad in a daily newspaper of Paris.

Are we to second these efforts? Let the young men and young women in American institutions of learning extend cordial hands across the seas.

Communications may be sent me as Chairman of the Franco-American Committee of the International Federation, at the office of the Columbia Alumni News, Columbia University, New York City. College and university papers please copy.

Very truly yours,
ROBERT FERRARI, Columbia '05.

OVER YE FOOTLIGHTS

Mr. William Collier, considered by many to be America's foremost comedian, and who is now appearing at the Plymouth Theatre in "Nothing but the Truth" has succeeded in delighting Boston audiences for the fourth consecutive week. "Nothing but the

Truth," which in itself is but little more than a mediocre farce, ranks as one of the best as executed by Mr. Collier and his able support. In fact so clever is their work in portraying humorous situations that the audience is kept in one continuous uproar throughout the entire performance.

"The Thirteenth Chair," at the Hollis Theatre, is beyond all doubt one of the most gripping mystery dramas that has appeared on the legitimate stage for some time. The author, Mr. Bayard Veiller, who has also given to the American public "Within the Law," delicately handles a theme which, in less experienced hands would become exceedingly morbid, and at the same time subtly avoids the sensational.

Having for its theme the solution of the murder of Edward Wales, the play alternately thrills and puzzles the audience. Miss Margaret Wycherly, as the lead, admirably enacts a difficult role.

OTHER ATTRACTIONS

"The Riviera Girl," musical comedy, at the Colonial.
"The Boomerang," a comedy, at the Tremont.
"The Man Who Came Back," drama, at Ye Wilbur.
"Success," drama, at the Park Square.
"The Copperhead," war drama, at the Schubert.
"Inside the Lines," war drama, at the Copley.
"Mother Carey's Chickens," drama, at the Majestic.

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UNITED STATES NAVAL ACADEMY—The U. S. Naval Academy is another one of the institutions of higher learning to shorten the second term. The term has been reduced to four months, ending May 31, instead of five months, ending June 22. Commencement will be held June 6.

SWARTHMORE COLLEGE—A ruling of the faculty of Swarthmore College unanimously indorsed the shortening of the Easter vacation and eliminating all other holidays until the end of the college year. This change was made to allow the college to close a month earlier so that students and members of the faculty made be released to the industries. The 1918 commencement has been set for May 20.

STEVENS INSTITUTE OF TECHNOLOGY—Stevens is to shorten the collegiate year for seniors by about two months. No course is to be omitted or abridged, but an additional hour will be added on each day and extra work will be done on two afternoons each week.

COLGATE COLLEGE—Because of the early closing of college in May and the usual unfavorable baseball weather until May, Colgate is considering making an extended baseball trip after the closing of college.

WORCESTER POLYTECHNIC INSTITUTE—Worcester Polytechnic has adopted a cram course for the senior class by which the second term is shortened several weeks. Commencement Day will be held in the middle of April, instead of in June.

WISCONSIN UNIVERSITY—At the request of the Ordnance Department, Wisconsin University is giving a special course in the "Classification of Army Stores." Completion of the course means acceptance in the Ordnance Reserve.

CORNELL UNIVERSITY—A class in telegraphy has been formed at Cornell for men who wish to qualify for service in the Signal Corps.

NEW HAMPSHIRE—Minus dress suits, Parisian gowns and an imported orchestra the senior class held its annual ball last week—and the report is that with "economy the keynote" everyone had a good time. The dance is described as the most simple in decorations, dance orders, and refreshments which has been given at New Hampshire.

PRINCETON UNIVERSITY—Special attention will be given to target practice and bayonet drill by the R. O. T. C. at Princeton. A reorganization, recently affected, makes a regiment of the former war strength battalion. Hand grenade throwing and signal practice are also to be presented to the student soldiers. Col. William Libbey, widely known as an expert marksman, has consented to conduct the rifle practice, for which eight ranges have been constructed.

COLUMBIA UNIVERSITY—A novelty introduced at the Hartley Hall smoker the other evening was a talk by the "Crown Prince" himself, the former Ambassador to Germany, James W. Gerard, being unable to be present. The subject of his talk was principally a dissertation on his recent military exploits. His "line" brought down the house and it is probable that numerous New York vaudeville managers will be chasing him, contract in hand, as a new attraction.

The student board of the University of Columbia strongly sanctions the production of a variety opera this year, provided a certain portion of the receipts are turned over to some war or charity organization.

IOWA—A recent act by the Federal government will make the college of education at the University the center of educational influence not only for Iowa, but for the entire middle west. A sub-station of the United States bureau of education is to be placed at that institution with the present Dean W. F. Russell as its head. Similar stations are now located at Columbia, Chicago, Peabody College, and Leland Stanford, Jr., this being the first time that a state university has been distinguished.

OKLAHOMA—For the second time in the history of the University of Oklahoma the grand old American game of marbles is being played on the campus. Last time it was played by seniors in the University, but now it has been taken up by the men in the Junior high school conducted by the school of education of the University.

TEXAS—Word has been received from Washington that 709 student aviators will arrive soon at the School of Military Aeronautics at Austin, all having been transferred from the school at Atlanta, Ga., which has been converted into a school for supply officers. The transfer means that the

capacity of the S. M. A. at Austin must be practically doubled.

UNIVERSITY OF OREGON—The University of Oregon has installed in its physical training department a schematograph, a machine for use in posture tests. It is quite an addition to the corrective equipment of the gymnasium, for it presents a silhouette of the posture of the person examined with a remarkably clear outline.

UNIVERSITY OF WASHINGTON—A new sort of intramural athletics has been inaugurated at Washington. It is intended not only for varsity men and those that are compelled to take gym work, but for every student. Professors, as well as students, are expected to take part, and such a variety of sports will be provided that there will be no excuse for slackers.

UNIVERSITY OF INDIANA—Next semester a new plan of class schedules will be put into effect at the University of Indiana. There are to be nine recitation hours each day, instead of eight, the first class in the morning commencing at 7.30 o'clock and the last class closing at 5.20 o'clock. Saturday classes, however, are to be done away with entirely, military drill will come four days a week at 9.30 o'clock in the morning and last just one hour. A weekly convocation will be held on the fifth day at that hour.

MCGILL UNIVERSITY—A course of lectures on practical, industrial and manufacturing chemistry was begun last week at McGill. The course is to consist of two addresses each week by men who have had extended or special experience in the subject to be treated, and is designed to acquaint chemistry students with the more practical side of their field.

YALE UNIVERSITY—A special agent of the Department of Justice has published a request in the Yale News for student co-operation in the apprehension of alien conspirators who, due to the great concentration of munitions factories in and about New Haven, have found that city profitable hunting ground. What students can do is to report any unpatriotic talk or any plans for meetings that they overhear in restaurants, theatres, or public conveyances. Several valuable bits of information have already been contributed by students.

GOVERNMENT CONTROL

(Continued from page 1)

immediate study and investigation of railway and especially terminal conditions were directed.

In some sections of the country an embargo was placed on any consignment not releasing freight promptly upon arrival; certain passenger trains were annulled; and all over the country the demurrage charges on unloaded cars were increased.

The Director General appealed to the people of the United States to observe the week beginning January 14 as "Freight Moving Week," urging the people at large as well as the railroad forces to make a supreme effort to unload all freight cars and remove freight from railroad stations and clear the deck for a more expeditious moving of freight.

The Director General says that every railroad officer and employee is now, in effect, in the services of the United States, and each as important a factor in winning the war as a man in the trenches.

Secretary McAdoo asked for the co-operation of the railways, the railway officials and employees, and the people at large. The response was immediate and strong, and Government control in the United States has become a public, national effort participated in by the whole people.

English

The experience of the English Government in railway control is of prime interest to Americans at this juncture. The following summary of the railway control by the English Government is taken from a speech delivered in the Senate January 4 by Senator Henry F. Hollis, of New Jersey:

"The English Government took entire control of all railways in Great Britain on August 14, 1914, agreeing to pay the stockholders the same earnings as they received in the year 1913.

"As traffic demands increased while facilities decreased, due to wear and tear and the enlistment of thousands of railway workers, recourse was had to reduction of service and the employment of women and men not capable of bearing arms, the number of women employed increasing in three years from 15,000 to 100,000. Freight cars were pooled without regard to ownership, and the loading and unloading of cars were expedited under heavy penalties, fines, and imprisonment; it was made a criminal offense to fail to load or unload in accordance with the rules. Passenger trains were annulled, reservation of seats abolished, traffic diverted, and passenger rates advanced 50 per cent, not so much to increase revenue as to discourage travel."

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N. Warshaw, '16, 2nd Lieut. Coast Artillery.

AMERICANS TO BUILD HIGHWAY IN CHINA

At a conference held recently between the representatives in Peking of the Rockefeller Foundation and the Chinese director general of the flood relief and conservancy, final arrangements were completed for the building of the proposed model highway from Peking to Tunghow.

Important Cities Linked

Tunghow is an important provincial town about fifteen miles east of Peking. It is a great center for missionary work, and several important educational institutions are located there. The scheme of a road from Peking has been under discussion for some time, and its adoption in a practicable form at present is due to the urgent need of finding employment at this season of the year for some of the persons left destitute by the serious floods in the Province of Chihli last fall.

Red Cross Deposits \$100,000

The American Red Cross has already deposited \$100,000 in a Peking bank to cover the cost of this work, and the Chinese Government has promised to deposit an equal amount shortly. A Chinese director of the work has been appointed and another Chinese—formerly technical expert of the ministry of the interior—has been made chief engineer; but close attention to the matter will be given by an American engineer, who will probably be one of those employed by the American company that is now engaged in railroad building in China. It is proposed to extend this road to Tientsin when additional funds are available.

Technology Men in War Service

The Tech wishes to print the names of Technology men in War Service, whether in a military or industrial capacity, together with the branch of such service with which they have allied themselves. Notification of any corrections or changes in the information given in this column will be appreciated. Address any information of this character to the Managing Editor, The Tech, Massachusetts avenue, Cambridge, Mass.

Class of 1887

HOLLON C. SPAULDING, Capt., Ord. Corps.

Class of 1890

JOHN B. BLOOD, 1st Lieut., Const. & Repair Dept., U. S. Nebraska.
DARRAH DELANCY, Secretary War Dept., District Board of Second District, Conn.

Class of 1891

JEREMIAH CAMPBELL, Major, A. E. F.

Class of 1904

HARRY G. CHAPIN, 1st Lieut., Engrs. Div., Avia. Sec.
FREDERICK A. O'LEARY, Lieut., 13th Res. B. Inf. Injured in France, 1917, now in New Brunswick Reg., Seaford, South Camp, England.

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EDMUND G. FARRAND, Priv., Ord. Dept., Watervliet, N. Y.

"WOMEN AND WAR WORK" VOLUME BY MISS FRAZER

G. Arnold Shaw, the New York publisher, announces for publication on January 26 "Women and War Work," a text-book for women war-workers, by Miss Helen Frazer, who is now lecturing in America with the approval of the British Government on "Women's Part in Winning the War." Her book is designed to give permanent value to her work on the lecture platform.

President MacCracken of Vassar College has written a foreword to the book from which we quote: "Miss Frazer's book is a piece of history, and history is action. The wonderful work of the women of England is already emulated by the splendid efforts along many lines of the women of our country. The new lessons of co-operation and of selfless devotion learned from this book will, I confidently predict, within a few months be translated into action by the Women's War Service Committees in every state of our land."

Miss Frazer lectured on her subject of "Women and the War" before the Institute last Monday afternoon.

CATHOLIC CLUB TO HOLD MEETING AND FIRST DANCE

Next Wednesday evening at 8 o'clock the Catholic Club will hold a meeting in the "Caf." There will be short talks by several speakers, after which a buffet supper will be served. At the meeting the first dance will be discussed and arrangements made to provide for the number who signify their intention of attending. The dance will be held the Saturday following the smoker, and will take place at 8 o'clock in the North Dining Room of the Walker Memorial. A musical program has been arranged by the officers of the club. The subscription to the dance will be one dollar.

M. I. T. WAR SERVICE AUXILIARY

The Book Room

A policeman's life may not be a happy one, but it would be difficult to convince the average rookie of today that the policeman has anything of which to complain. Our soldiers are working long hours, for the most part in alien surroundings, and to many, particularly to the better educated of them, the amusements provided for their spare time make small appeal. It is for such of these men as come from Technology that the work of the Book Room has been carried on.

The Book Room has been open as a sub-division of the M. I. T. War Auxiliary Workroom since the first of October. Its equipment is simple. Five sets of shelves are filled with a shifting population of magazines, books, and scrap-books; a table is covered with an "exhibit" of the Book Room products; and a soap box is freighted with such indispensables as labels, glue, and twine. But to an outsider the most interesting thing in the room is the supply of neat, wooden book boxes, stencilled "M. I. T. Portable Book Case." These are oblong, carefully made, and capable of holding twelve or fifteen books, much after the manner of a small book shelf. Single screws secure the sliding covers of these boxes, and handles make them easily portable. Each box contains a miniature library designed to satisfy a variety of tastes. Fiction predominates, but poetry, essays, biography, history, travel and nonsense are included in varying proportion. When the boxes are filled, they are tagged and sent off by express to Technology men in training camps.

But although more books have been sent off in this way than in any other, the shipment of boxes is not the Book Room's only activity. In response to any request for them, either by the men themselves or by their friends, single volumes are wrapped up and sent to soldiers at any address, whether in this country or in Europe. The "exhibit" table always has on it a row of books any of which will be sent in this way, and many men in service have already received books selected for them by their friends.

These books, whether in box or package, are intended for those in active service; the scrapbooks which are made by Book Room workers and their friends are designed for the monotonously inactive on the hospital list. They are light and easy to hold, and contain a variety of things, anecdotes, jokes, poems, and many pictures, plain and colored.

The Book Room is supported by voluntary subscription. Books and magazines have been donated by many who felt interested in the work; the paper for scrapbooks was supplied by a Technology alumnus; and money to pay postage on single books has been given. That the activity of the Book Room has been and will be increasingly useful, abundant testimonials bear witness. To all who are interested in the work an invitation to help is extended. Donations of books or magazines and also subscriptions of money may be sent to the Book Room, Rogers Building, 491 Boylston St., Boston.

CHANGES IN INSTRUCTING STAFF AT THE INSTITUTE

The instructing staff of the Institute has undergone further changes and the Executive Committee made four new appointments, accepted the following resignations and granted two leaves of absence. The appointments are: William F. Jones, instructor in Geology for the second term; Royal E. Grant, assistant in Physics from January to May inclusive; C. H. G. Gray, assistant in Electric Engineering; Dr. F. H. Thorp, lecturer in Industrial Chemistry.

The Committee accepted the resignations of E. A. Ekdahl, assistant in Electrical Engineering; Bailey Townsend, assistant in Physics. Leaves of absence were granted to J. G. Barry, instructor in Geology and Professor C. F. A. Carrier.

FRENCH REORGANIZE AVIATION DEPT.; AIR BOARD FORMED

Paris, Jan. 5 (by mail).—The Aviation Department of the French army has been reorganized and there has been created an Air Board, of which the Minister of Munitions is president. Members of the board comprise the Under Secretary for Aviation, a representative of the commander-in-chief and the heads of the various departments concerned.

An aviation program will be drawn up from time to time at General Army Headquarters and submitted to the Under Secretary for Aviation, who in turn will lay it before the new Air Board. After a study of the program this board will decide the number of machines to be built and immediately award contracts for their construction.

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"FALL IN there, you out-last-night-ers—
Are you men or creepin' snails?
Uncle Sam is wantin' fighters,
Don't stand there and bite your nails.

"Squad ATTENTION! Why the dickens
Don't you beggars toe the chalk?
Do you think I'm shouting orders
Just to hear my sweet self talk?

"Right Dress, FRONT! You're pretty rotten
Look like clothes-pins on a line,
Don't bulge out like bales of cotton—
Ain't you got no bloom'n' spine?

"Mark time, MARCH. Don't be afraid
To lift your feet off the floor;
You'd think that each foot might a' weighed
A half a ton or more.

"Squad right, MARCH! Now there you go
Like a week's wash in a gale;
Any half wit ought to know,
More'n you when full of ale.

"Squad HALT! And quit your shovin'
There is room enough for all;
Cut out that turtle dovin'—
Brace up—lively now—play ball!

"Forward, MARCH. You lazy loafers,
What d'ye think the army's for,
Sittin' round on red plush sofers,
Talkin' 'bout this bloom'n' war?

"To the rear, MARCH! Doggone your hide!
Stop that scrapin' with your heels—
This ain't no toboggan slide—
Move like men, don't squirm like eels.

"Squad, HALT! About FACE!
Don't tumble now—Parade REST!
Some job, Bo, and say, some pace—
But anyhow, my squad's the best."
—Cleveland Evening Telegram.

EXEMPTION CLAIMS AND FITNESS OF DRAFTEES

The Provost Marshal General in his report on the operation of the selective service act, offers the following data on as to how many men went willingly and how many endeavored to evade the draft: Total number of men certified for service, 1,057,363; involuntary conscripts (failed to report or filed unsuccessful exemption claims), 418,309; voluntary conscripts (no claims for exemption), 639,054.

The report also authorizes the following: The common belief that the average of physical soundness is higher among the country boys than among the city bred is not supported by the records of the selective draft. For the purpose of comparison selection was made of a typical set of cities and a corresponding set of counties, the total of both these areas aggregating about 315,000.

The comparison resulted in 28.47 per cent. of the city men being rejected to 27.96 per cent. of the country men rejected. This is virtually a tie.

ARTICLES FOUND

The following articles have been found and can be secured upon identification at the office of the Superintendent of Buildings and Power:

One copy of "English and Engineering," 1 black notebook, 1 copy "Advanced Machine Work," 1 copy of "History of Modern Europe," 4 copies of "Trigonometry," 1 copy of "Lichtenstien," 1 copy of "Physics Problems," 1 copy of "Precision of Measurements," small pipe with initial "R," numerous knives, 3 pairs of gloves, 3 fountain pens, 2 cases containing eye glasses.

DEPRIVATION (From Collier's)

The next time you feel inclined to grumble over the inconvenience of a wheatless or meatless day (which is not compulsory by law), think over these extracts from a recent Food Administration bulletin:

The sale and use of cream was prohibited in Great Britain by Government order after December 8, except for infants, invalids, and for butter making. The retail price of milk was raised under governmental authority from 14 to 16 cents per quart in Great Britain on the first of December.

Switzerland is a neutral country, but it is none the less enduring the usual food shortage prevailing in war-stricken Europe. The people there are now being rationed at one pound of sugar per month per person; rice cards are issued which allow one pound per month per person; the bread cards allow one-half pound of bread per person per day.

Coffee now being sold in Germany is of three grades only: one 50 per cent coffee, one 25 per cent coffee, and one 10 per cent coffee. A new substitute has been found for tea in the shape of dried pear and apple peel. The milk ration of the children of Berlin has been reduced one-third.

In Hungary, in addition to the meatless days, Fridays and Mondays have now been ordained fatless days. The small amount of privately owned fats is selling for \$3.00 a pound upward.

We like to talk about making sacrifices for Uncle Sam, and we like to think that we are enduring untold hardships to help along the war. As a matter of simple fact, we haven't the slightest conception of what hardship and deprivation mean—as the people of Europe today know them.

TECHNOLOGY HAS NINTH LARGEST AMBULANCE QUOTA

Harvard leads all other American colleges and universities in the number of men who served in American Ambulance Field Service, which has recently been absorbed into the United States army, according to figures compiled by Professor Paul Van Dyne of Princeton. These statistics include only drivers in the ambulance section proper.

The institutions represented by the largest numbers who volunteered for the ambulance Service are as follows:

Harvard	.....311
Yale	.....192
Princeton	.....190
Dartmouth	.....122
Cornell	.....107
California	.....65
Stanford	.....56
Columbia	.....49
M. I. T.	.....39
Chicago	.....38
Brown	.....12

Brown has, however, 25 others in the United States Ambulance Service located at Allentown, Pa.

EXPANDING ENGINEERS' CAMP

The engineers' training camp at Belvoir, Pa., is to be expanded until sufficient accommodations for about 16,000 men have been provided. Construction will begin at once and the additional housing is expected to be ready about April 15. It is proposed to use this as a special training camp for the engineer officers' reserve corps, in accordance with the announced policy of the War Department to instruct men for this and the Quartermaster Corps at camps separate from those of the line. Officers especially expert in the engineering branch will be loaned by the Allied governments as additional instructors.